UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

NORTH STACEY SCHOOL QUADRANGLE
MONTANA
7.5 MINUTE SERIES (TOPOGRAPHIC)

OPEN FILE REPORT 79-016
PLATE 1 OF 22

OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature.

EXPLANATION

INDEX NUMBER OF MEASURED SECTION SHOWN ON PLATE 3 OF CRO MAP—Coal section measured at point of triangle.

LINE OF COMPOSITE SECTION—Showing index number of section shown on plate 3 of CRO map. Composite section is based on nearby coal bed thickness measurements.

GL 2995
NR 191
R 10+

OIL AND GAS TEST HOLE—Showing drill-hole data, in feet.

GL 3420
R 41
C 2 (L)
R 138
C 16 (Kn)
R 13
TD 210

COAL TEST HOLE—Showing index number of hole shown on plate 3 of CRO map, and drill-hole data, in feet.

GL— —Ground elevation
NR— —No record
R— —Rock interval
C— —Coal interval
TD— —Total depth

DRILL-HOLE DATA SYMBOLS

F—F coal bed
E—E coal bed
C and D—C and D coal beds
Sa$_1$—Upper Sawyer split
Sa$_2$—Lower Sawyer split
Kn—Knobloch
LC—Lay Creek
F-G—Flowers-Goodale
Te—Terret
L—Local

COAL BED SYMBOLS AND NAMES

C 0.5 (L)
R 2.5
2.5 5.9+ 0.1 C 6.5 (Kn)
Kn

TRACE OF COAL BED OUTCROP—Dashed where approximately located; short dashed where inferred. Showing thickness of coal, or coal-rock intervals, in feet, measured at triangle. Where a thickness fraction is shown, it indicates the net coal thickness (upper number) and net partings thickness (lower number). Letters designate the name of the coal bed as listed above. Arrow points toward coal-bearing area. Trace of coal outcrop has been modified from Bass (1932, pl. 3), Brown, et al. (1954, pl. 23), and Gilmour and Williams (1969, pls. 1, 2, 3) to fit modern topographic map.

BURNED AND CLINKERED COAL BED—Showing area of baked and fused rock (v symbol). Dotted line indicates the inferred limit of burning.

COAL MINE

To convert feet to meters, multiply feet by 0.3048.

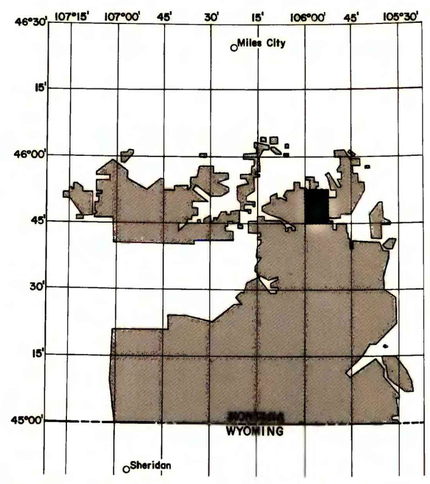
REFERENCES FOR NONINDEXED DATA POINTS

BASS, N.W., 1932, The Ashland coal field, Rosebud, Powder River, and Custer Counties, Montana: U.S. Geol. Survey Bull. 831-B, p. 19-105.

BROWN, A., and others, 1954, Strippable coal in Custer and Powder River Counties, Montana: U.S. Geol. Survey Bull. 995-E, p. 151-199.

GILMOUR, E.H., and WILLIAMS, L.A., 1969, Geology and coal resources of the Foster Creek coal deposit, eastern Montana: Mont. Bur. Mines and Geol. Bull. 73, p. 1-9.

MONTANA BUREAU OF MINES AND GEOLOGY, 1977, Open-file well logs available at Montana Bureau of Mines and Geology, Butte, Montana.



INDEX MAP—Showing location of the North Stacey School quadrangle and the Northern Powder River Basin Known Recoverable Coal Resource Area (stippled), Montana

Base map from U.S. Geological Survey, 1973

Compiled in 1977

SCALE 1:24 000

UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE MAP OF THE NORTH STACEY SCHOOL QUADRANGLE, CUSTER AND POWDER RIVER COUNTIES, MONTANA

BY

COLORADO SCHOOL OF MINES RESEARCH INSTITUTE

1979

PLATE 1
COAL DATA MAP